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IDENTIFIER:
TITLE: PRODUCTION OF AROMATIC POLYSULFONE SEMIPERMEABLE
MEMBRANE EXCELLENT IN WATER PERMEABILITY
PUBN-DATE: March 26, 1992

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ABSTRACT:

PURPOSE: To produce a semipermeable membrane with suppressed elution of hydrophilic resin under simple and mild conditions by dipping a semipermeable membrane comprising aromatic polysulfone containing hydrophilic resin in a polycarboxylic acid of specified compsn. and then treating the membrane by heating.

CONSTITUTION: A semipermeable membrane is produced from a membrane- producing solution containing hydrophilic resin such as polyvinylpyrrolidone, etc., and aromatic polysulfone. Then this semipermeable membrane is dipped in a polycarboxylic acid aq. soln. containing α,β -unsatd. carboxylic acid such as polyacrylic acid, polyitaconic acid, etc., as the main monomer component, and then treated by heating to make the hydrophilic resin water-insoluble. The obtd. polysulfone semipermeable membrane has high water permeability without elution of hydrophilic resin and can be used for water treatment for a long time.

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